

## ABSTRACT

The present invention is directed to a method of forming a golf ball core. After compression molding a core material in a mold cavity to form a partially-cured core, the partially-cured core is removed from the mold cavity and placed in a medium to continue curing until it is substantially-cured. The method can also be used to form a golf ball by adding the step of forming a cover layer over the substantially-cured core. The present invention is also directed to a system for forming a golf ball core comprising an apparatus for making a core material, a compression mold for partially curing the core material, and a chamber for substantially curing the core material.